

Refine Search

Search Results -

Term	Documents
(14 AND 5).PGPB,USPT,DWPI.	1
(L5 AND L14).PGPB,USPT,DWPI.	1

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L16

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Wednesday, January 21, 2004 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=PGPB,USPT,DWPI; PLUR=YES; OP=ADJ

<u>L16</u>	15 and 114	1	<u>L16</u>
<u>L15</u>	15 and 113	2	<u>L15</u>
<u>L14</u>	210/508	884	<u>L14</u>
<u>L13</u>	210/507	346	<u>L13</u>
<u>L12</u>	15 and 111	2	<u>L12</u>
<u>L11</u>	210/505	899	<u>L11</u>
<u>L10</u>	15 and 19	0	<u>L10</u>

<u>L9</u>	210/503	810	<u>L9</u>
<u>L8</u>	15 and 17	0	<u>L8</u>
<u>L7</u>	210/492	521	<u>L7</u>
<u>L6</u>	14 and L5	2	<u>L6</u>
<u>L5</u>	11 and 12 and 13	140	<u>L5</u>
<u>L4</u>	210/490	2062	<u>L4</u>
<u>L3</u>	batt and (fiber or fibre) and layer	3372	<u>L3</u>
<u>L2</u>	woven and layer	76888	<u>L2</u>
<u>L1</u>	filter and cloth	27075	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Term	Documents
(14 AND 12 AND 2).PGPB,USPT,DWPI.	4
(L2 AND L12 AND L14).PGPB,USPT,DWPI.	4

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L15

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Wednesday, January 21, 2004 [Printable Copy](#) [Create Case](#)

<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
side by side			
<i>DB=PGPB,USPT,DWPI; PLUR=YES; OP=ADJ</i>			
<u>L15</u>	l2 and l12 and l14	4	<u>L15</u>
<u>L14</u>	l4 and l13	235	<u>L14</u>
<u>L13</u>	batt and (fiber or fibre) and layer	3372	<u>L13</u>
<u>L12</u>	l3 and l5	2944	<u>L12</u>
<u>L11</u>	l3a nd l5	0	<u>L11</u>

<u>L10</u>	filter and cloth and woven	5788	<u>L10</u>
<i>DB=USPT,PGPB,DWPI; PLUR=YES; OP=ADJ</i>			
<u>L9</u>	L3 and L4 and L8	9	<u>L9</u>
<u>L8</u>	L2 and L7	406	<u>L8</u>
<u>L7</u>	textile same fabric	34600	<u>L7</u>
<u>L6</u>	non-woven or unwoven or un-woven or nonwoven	100523	<u>L6</u>
<u>L5</u>	woven	155816	<u>L5</u>
<u>L4</u>	protective same layers	133903	<u>L4</u>
<u>L3</u>	middle same layers	37456	<u>L3</u>
<u>L2</u>	filter same cloth	13938	<u>L2</u>
<i>DB=PGPB,USPT,DWPI; PLUR=YES; OP=ADJ</i>			
<u>L1</u>	5209807	2	<u>L1</u>

END OF SEARCH HISTORY

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6648147 B1

Using default format because multiple data bases are involved.

L15: Entry 1 of 2

File: USPT

Nov 18, 2003

US-PAT-NO: 6648147

DOCUMENT-IDENTIFIER: US 6648147 B1

TITLE: Phase-separation member

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lydon; Richard Patrick	Handbridge			GB
Doran; Fredrick	Haslingden			GB

US-CL-CURRENT: 210/490; 162/900, 162/902, 162/903, 210/496, 210/499, 210/507,
210/508, 210/510.1, 428/306.6, 428/308.4, 428/315.5, 442/170, 442/72, 442/76,
442/94

Full	Title	Citation	Front	Review	Classification	Date	Reference	Examination	Attachment	Claims	KMC	Draw D
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☒ 2. Document ID: US 4210697 A

L15: Entry 2 of 2

File: USPT

Jul 1, 1980

US-PAT-NO: 4210697

DOCUMENT-IDENTIFIER: US 4210697 A

TITLE: Process for preparing hydrophobic porous fibrous sheet material of high strength and porosity and product

DATE-ISSUED: July 1, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adiletta; Joseph G.	Thompson	CT		

h e b b g e e f e g b c ef b e

US-CL-CURRENT: 442/87; 162/152, 162/156, 162/164.1, 162/168.1, 162/183, 427/244,
427/387

ABSTRACT:

A process is provided for preparing hydrophobic porous fibrous sheet material suitable for use as a filter due to its inertness, strength, resistance to deterioration at elevated temperatures, and porosity, comprising impregnating a porous fibrous substrate with an aqueous dispersion consisting essentially of polytetrafluoroethylene or polytrifluorochloroethylene in an amount within the range from about 2 to about 40% by weight of the emulsion, and a silicone resin prepolymer such as a reactive polydimethylsiloxane in an amount within the range from about 0.1 to about 8% by weight of the emulsion; and drying the substrate at a temperature above about 525.degree. F. to cure the silicone resin prepolymer, forming a hydrophobic polymer, and sinter-bond the polytetrafluoroethylene or polytrifluorochloroethylene thereto and to the substrate, thereby forming a hydrophobic porous fibrous sheet material that is inert, has a high strength, and a high resistance to deterioration at elevated temperature; each of the silicone polymer and polytetrafluoroethylene or polytrifluorochloroethylene unexpectedly synergizing the hydrophobicity and strength imparted to the substrate by the other. A hydrophobic porous fibrous sheet material also is provided, comprising a substrate of porous fibrous sheet material impregnated with a composition consisting essentially of polytetrafluoroethylene or polytrifluorochloroethylene and a silicone resin, said polytetrafluoroethylene or polytrifluorochloroethylene being sinter-bonded to the silicone resin and to the substrate, each of the silicone polymer and polytetrafluoroethylene or polytrifluorochloroethylene synergizing the hydrophobicity and strength imparted to the substrate by the other.

22 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KWC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Term	Documents
(13 AND 5).PGPB,USPT,DWPI.	2
(L5 AND L13).PGPB,USPT,DWPI.	2

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.42	0.42

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 08:34:25 ON 21 JAN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 21 Jan 2004 VOL 140 ISS 4
FILE LAST UPDATED: 20 Jan 2004 (20040120/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s batt and (fiber or fibre) and layer

328 BATT
174 BATTS
419 BATT
(BATT OR BATTS)
458513 FIBER
487623 FIBERS
632899 FIBER
(FIBER OR FIBERS)
2968 FIBRE
1952 FIBRES
4734 FIBRE
(FIBRE OR FIBRES)
1065509 LAYER
477121 LAYERS
1307598 LAYER
(LAYER OR LAYERS)
L1 72 BATT AND (FIBER OR FIBRE) AND LAYER

=> s batt(l)(fiber or fibre)(l)layer

328 BATT
174 BATTS
419 BATT
(BATT OR BATTS)
458513 FIBER
487623 FIBERS
632899 FIBER
(FIBER OR FIBERS)
2968 FIBRE
1952 FIBRES
4734 FIBRE
(FIBRE OR FIBRES)
1065509 LAYER
477121 LAYERS
1307598 LAYER
(LAYER OR LAYERS)
L2 68 BATT(L) (FIBER OR FIBRE) (L) LAYER

=> s batt(l) (fiber or fibre)

328 BATT

174 BATTS

419 BATT

(BATT OR BATTS)

458513 FIBER

487623 FIBERS

632899 FIBER

(FIBER OR FIBERS)

2968 FIBRE

1952 FIBRES

4734 FIBRE

(FIBRE OR FIBRES)

L3 279 BATT(L) (FIBER OR FIBRE)

=> s solid(l) liquid(l) filtration(l) filter

896928 SOLID

263020 SOLIDS

1091506 SOLID

(SOLID OR SOLIDS)

644629 LIQUID

118147 LIQUIDS

734082 LIQUID

(LIQUID OR LIQUIDS)

878366 LIQ

83667 LIQS

910718 LIQ

(LIQ OR LIQS)

1278204 LIQUID

(LIQUID OR LIQ)

205638 FILTRATION

890 FILTRATIONS

206096 FILTRATION

(FILTRATION OR FILTRATIONS)

208037 FILTER

107263 FILTERS

253343 FILTER

(FILTER OR FILTERS)

L4 954 SOLID(L) LIQUID(L) FILTRATION(L) FILTER

=> s solid(l) liquid(l) filtration(l) filter(l) cloth

896928 SOLID

263020 SOLIDS

1091506 SOLID

(SOLID OR SOLIDS)

644629 LIQUID

118147 LIQUIDS

734082 LIQUID

(LIQUID OR LIQUIDS)

878366 LIQ

83667 LIQS

910718 LIQ

(LIQ OR LIQS)

1278204 LIQUID

(LIQUID OR LIQ)

205638 FILTRATION

890 FILTRATIONS

206096 FILTRATION

(FILTRATION OR FILTRATIONS)

208037 FILTER

107263 FILTERS

253343 FILTER

(FILTER OR FILTERS)

31040 CLOTH


```

5290 CLOTHS
33383 CLOTH
      (CLOTH OR CLOTHS)
L5      56 SOLID(L) LIQUID(L) FILTRATION(L) FILTER(L) CLOTH

```

```

=> s filter(l)cloth
      208037 FILTER
      107263 FILTERS
      253343 FILTER
          (FILTER OR FILTERS)
      31040 CLOTH
      5290 CLOTHS
      33383 CLOTH
          (CLOTH OR CLOTHS)
L6      3429 FILTER(L) CLOTH

```

```

=> s symmetrical(l)filtering
      7283 SYMMETRICAL
      97369 SYM
          27 SYMS
      97387 SYM
          (SYM OR SYMS)
      101777 SYMMETRICAL
          (SYMMETRICAL OR SYM)
      68629 FILTERING
          11 FILTERINGS
      68636 FILTERING
          (FILTERING OR FILTERINGS)
L7      206 SYMMETRICAL(L) FILTERING

```

=> d his

(FILE 'HOME' ENTERED AT 08:33:36 ON 21 JAN 2004)

FILE 'CAPLUS' ENTERED AT 08:34:25 ON 21 JAN 2004

```

L1      72 S BATT AND (FIBER OR FIBRE) AND LAYER
L2      68 S BATT(L) (FIBER OR FIBRE) (L) LAYER
L3      279 S BATT(L) (FIBER OR FIBRE)
L4      954 S SOLID(L) LIQUID(L) FILTRATION(L) FILTER
L5      56 S SOLID(L) LIQUID(L) FILTRATION(L) FILTER(L) CLOTH
L6      3429 S FILTER(L) CLOTH
L7      206 S SYMMETRICAL(L) FILTERING

```

```

=> s (middle layer)(l)woven
S( IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

```

```

=> s (middle layer)(l)woven
      90119 MIDDLE
      91 MIDDLES
      90178 MIDDLE
          (MIDDLE OR MIDDLES)
      1065509 LAYER
      477121 LAYERS
      1307598 LAYER
          (LAYER OR LAYERS)
      4979 MIDDLE LAYER
          (MIDDLE(W) LAYER)
      19628 WOVEN
      98 WOVENS
      19703 WOVEN
          (WOVEN OR WOVENS)
L8      70 (MIDDLE LAYER) (L) WOVEN

```

=> d his

(FILE 'HOME' ENTERED AT 08:33:36 ON 21 JAN 2004)

FILE 'CAPLUS' ENTERED AT 08:34:25 ON 21 JAN 2004

L1 72 S BATT AND (FIBER OR FIBRE) AND LAYER
L2 68 S BATT(L) (FIBER OR FIBRE) (L) LAYER
L3 279 S BATT(L) (FIBER OR FIBRE)
L4 954 S SOLID(L) LIQUID(L) FILTRATION(L) FILTER
L5 56 S SOLID(L) LIQUID(L) FILTRATION(L) FILTER(L) CLOTH
L6 3429 S FILTER(L) CLOTH
L7 206 S SYMMETRICAL(L) FILTERING
L8 70 S (MIDDLE LAYER) (L) WOVEN

=> s 16 and 17 and 18

L9 0 L6 AND L7 AND L8

=> s 16 and 17

L10 0 L6 AND L7

=> s 13 and 15

L11 0 L3 AND L5

=> s 13 and 16

L12 0 L3 AND L6

=> s 13 and 17 and 18

L13 0 L3 AND L7 AND L8

=> s 11 and 16

L14 0 L1 AND L6

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

53.86

54.28

STN INTERNATIONAL LOGOFF AT 08:41:11 ON 21 JAN 2004